

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	(PCT Article 18 and Hules 43 and 44)	f Transmittal of International Search Report
pplicant's or agent's file reference	FOR FORTHER (Form PCT/ISA/22	f Transmittal of International Gealeth Reports 20) as well as, where applicable, item 5 below.
· · · · · · · · · · · · · · · · · · ·	ACTION	(Earliest) Priority Date (day/month/year)
NT1013/MAJR nternational application No.	International filing date (day/month/year)	
	21/09/2000	30/09/1999
PCT/ZA 00/00176		
Applicant		
BILLITON INTELLECTUAL PRO	PERTY B.V. et al.	
		hority and is transmitted to the applicant
This International Search Report has bee according to Article 18. A copy is being tr	on prepared by this International Searching Aut cansmitted to the International Bureau.	•
	sheets.	
This International Search Report consists	s of a total of should be a copy of each prior art document cited in this	is report.
It is also accompanied by	у с оору -	
1. Basis of the report	e international search was carried out on the banks of the management of the banks of the management of the banks of the b	asis of the international application in the
a. With regard to the language, the	e international search was callied out of the parties of the wise indicated under this item.	
language in which it was in a sparch	was carried out on the basis of a translation of	of the international application furnished to this
the international search Authority (Rule 23.1(b))	i.	international application, the international search
b. With regard to any nucleotide was carried out on the basis of	and/or amino acid sequence disclosed in the the sequence listing:	e international application, the international search
was carried out of the basis	stional application in written form.	
filed together with the in	nternational application in computer reduces.	ionii.
E de circle d'aubcoquently	v to this Authority in written form.	
furnished subsequently	y to this Authority in computer readble form.	a does not go hevond the disclosure in the
sat that the	subsequently furnished writter sequence now	ny dues not yo boyona dia accusace lieting has been
the statement that the	information recorded in computer readable for	rm is identical to the written sequence listing has been
furnished		
2. Certain claims were	found unsearchable (See Box I).	
3. Unity of invention is	s lacking (see Box II).	
4. With regard to the title ,	as submitted by the applicant.	
the text is approved a	as submitted by the approved tablished by this Authority to read as follows:	
the text has been est	manones wy man a m	
5. With regard to the abstract,		
	as submitted by the applicant.	Authority as it appears in Box III. The applicant may, rch report, submit comments to this Authority.
within one monum	Off the date	rch report, submit comments to this Authority. 1
6. The figure of the drawings to b	e published with the abstract is Figure No.	None of the figures.
U. 110 ngaro or and areas	e applicant.	
as suggested by the		
hecause the applic	ant failed to suggest a figure. better characterizes the invention.	

From the INTERNATIONAL SEARCHING AUTHORITY

McCALLUM RADEMEYER & FREIMOND

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT

McCALLUM RADEMEYER & FREIMOND P.O. Box 1130 7 Maclyn House, Bordeaux 2125 Randburg SOUTH AFRICA	THE INTERNATIONAL SEARCH REFORM OR THE DECLARATION (PCT Rule 44.1)	
	Date of mailing (day/month/year) 06/02/2001	
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below	
INT1013/MAJR International application No. PCT/ZA 00/00176	International filing date (day/month/year) 21/09/2000	
Applicant BILLITON INTELLECTUAL PROPERTY B.V. et		
1. Y The applicant is hereby notified that the International Se	earch Report has been established and is transmitted herewith.	

		Becart has been established and is transmitted herewith.			
_	TVI	The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.			
1.		Filing of amendments and statement under Article 13.			
		When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.			
		Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35			
		For more detailed instructions, see the notes on the accompanying sheet.			
		For more detailed instruction,			
2.		The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.			
		and a partitional foo(s) under Rule 40.2, the applicant is notified that:			
3		With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:			
		with regard to the protest against payment or (an) asserting to the International Bureau together with the the protest together with the decision thereon has been transmitted to the International Bureau together with the the protest together with the decision thereon to the designated Offices. The protest together with the decision thereon to the designated Offices.			
		no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.			
		urther action(s): The applicant is reminded of the following:			
1	4. Fu				
	!	northy after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3 respectively, before the priority claim, must reach the International publication.			
-	,	completion of the technical preparations for international passession of the technical preparations for international preliminary examination must be filed if the applicant //ithin 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant //ithin 19 months from the priority date (in some Offices even later).			
\cdot		wishes to postporie the entry who national phase			
	W	wishes to postpone the entry into the national phase with so members to postpone the entry into the national phase within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase within 20 months from the before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.			
١		priority date or could not be elected because they are			

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Maria Van der Hoeven

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Inese Notes are intended to give the basic instructions concerning the fluing of alternations and the Administrative Instructions.

Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions. notes are pased on the requirements of the resent Cooperation Treaty, the negulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the the applicant has, after having received the international search report, one opportunity to amend the dialins of the international application. It should however be emphasized that, since all parts of the international application (claims, international application. It should nowever be emphasized that, since all pans of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually description and drawings) may be amended during the international preliminary examination procedure, there is described no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published no need to file amendments of the claims under Article 13 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international poulication. for the purposes of provisional protection of has another reason for alterding the claims before the Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority vviinin ∠ months from the date of transmittal of the international search report of to months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the as naving peen received on time it trey are received by the international publication applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is All the claims appealing on a replacement sheet must be numbered in Arabic numerals, where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be The letter will not be published with the international application and the american dame. It should not confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is Exercise the letter must be in Exercise. is French, the letter must be in French.

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in The letter must indicate the universities between the claims as their and the claims as affected. It has, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- the claim is cancelled;
- the claim is new; (iii)
- the claim replaces one or more claims as filed; (iv)
- the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]: where originally there were 40 claims and after amendment of some claims there are 31). "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or *Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged. new claims):
- "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended [Where various kinds of amendments are made]: Claims 1-10 unchanged, claims 11 to 13, 10 and 13 candeled, claims 14, 13 and 10 tephaced 5, claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added.

The amendments may be accompanied by a statement explaining the amendments and indicating any impact "Statement under article 19(1)" (Rule 46.4) the amendments might have on the description and the drawings (which cannot be amended under that a contract the contract that a co Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination in, at the time or using any amendments under Atticle 15, a command for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the the applicants attenuor is grawn to the fact that, where upon entry into the national phase, a translation of the designated/elected Offices, instead of, or charges as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.







From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: McCALLUM RADEMEYER & FREIMOND PO Box 1130 Randburg 2125 AFRIQUE DU SUD Hat and Election

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

(PCT Rule 71.1)

Date of mailing

(day/month/year)

13.12.2001

Applicant's or agent's file reference

International application No.

PCT/ZA00/00176

INT.1013

International filing date (day/month/year)

21/09/2000

IMPORTANT NOTIFICATION Priority date (day/month/year)

30/09/1999

BILLITON INTELLECTUAL PROPERTY B.V. et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

Authorized officer

Eich, M

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REC'D 17 DEC 2001

WIPO

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification	ation of Transmittal of International Examination Report (Form PCT/IPEA/416)
			Priority date (day/month/year)
NT.1013	International filing date (day/mont	h/year)	30/09/1999
nternational application No.	21/09/2000		30/03/1000
PCT/ZA00/00176 International Patent Classification (IPC)			
C22B30/04			Authority
This international preliminary of and is transmitted to the application. This REPORT consists of a to	examination report has been prepa cant according to Article 36. otal of 5 sheets, including this cove	r sheet.	nternational Preliminary Examining Authority otion, claims and/or drawings which have grectifications made before this Authority er the PCT).
(see Rule 70.16 and Sec These annexes consist of a	ction 607 of the Administrative instr	ts containing uctions unde	otion, claims and/or drawings which the province of the PCT).
I Basis of the report of the r	port ment of opinion with regard to nove of invention Itement under Article 35(2) with reg- explanations suporting such statem	ard to novelt ent	step and industrial applicability y, inventive step or industrial applicability;
Date of submission of the deman	id	Date of comp	oletion of this report
Name and mailing address of the preliminary examining authority: European Patent C		Authorized of Boureau,	Me sames
	- 0 Tx: 523656 epmu d	1	No. +49 89 2399 8454

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/ZA00/00176

I. Basis of the report

and are not annexed to Description, pages:	ents of the international esponse to an invitation this report since they can be originally filed	al application (Replacement sheets which have been furnished to n under Article 14 are referred to in this report as "originally filed" do not contain amendments (Rules 70.16 and 70.17)):
1-14	as originally the	
Claims, No.:	with telefax of	05/12/2001
Drawings, sheets:	as originally filed	
These elements well the language of the langua	re available or furnishe of a translation furnishe of publication of the inte of a translation furnishe 5.3).	Into marked above were available or furnished to this Authority in the stion was filed, unless otherwise indicated under this item. It is do not this Authority in the following language: , which is: and for the purposes of the international search (under Rule 23.1(b)). It is application (under Rule 48.3(b)). It is do not the purposes of international preliminary examination (under Rule and for the purposes of international preliminary examination (under Rule and sequence disclosed in the international application, the security of the sequence listing:
contained in filed together furnished sul furnished sul furnished sul The statementh internati	the international application with the international absequently to this Authorised that the subsequentional application as file ent that the information deen furnished. Into have resulted in the potion, pages:	ation in written form. application in computer readable form. nority in written form. nority in computer readable form. tly furnished written sequence listing does not go beyond the disclosure d has been furnished. In recorded in computer readable form is identical to the written sequence

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/ZA00/00176

EXAMINATION REPO			
the drawings, This report has be considered to go to (Any replacement report.)	sheets: en established a beyond the discl	as if (some osure as f g such an	ne of) the amendments had not been made, since they have been filed (Rule 70.2(c)): mendments must be referred to under item 1 and annexed to this
6. Additional observation	ns, if necessary:		
V. Reasoned statemen citations and explai	t under Article nations suppor	35(2) wit ting such	th regard to novelty, inventive step or industrial applicability; h statement
1. Statement			
Novelty (N)	Yes: No:	Claims Claims	1-7
Inventive step (IS)	Yes: No:	Claims Claims	
Industrial applicabil	ity (IA) Yes: No:	Claims Claims	
Citations and explain see separate she	anations et	·	
VI. Certain docu	ments cited documents (Ru	le 70.10)	ı
and / or			
2. Non-written discl	osures (Rule 70	.9)	

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Reference is made to the following documents:

D1: US-A-5 820 966, cited in the application

D2: PATENT ABSTRACTS OF JAPAN vol. 009, no. 017 (C-262) & JP 59 164639 A

D3: EP-A-1 059 361

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

2.1 Claim 1

Document D1 discloses a continuous method of disposing arsenic from acidic solutions containing copper and iron (column 4, Table 2), e.g. resulting from the treatment of smelter flue gases. The acidic solution is treated in a series of stirred tanks at a temperature of 75 °C (Table 1) with air addition.

In a first oxidation tank (22), As, Fe are completely oxidized by air and sulphur dioxide.

In a second conditioning tank (32), the solution is seeded with a precipitate including ferric arsenate which is obtained by neutralization with lime and recycled from a final tank (52,62).

In a third and fourth tanks (42,52), the solution is neutralized with lime to a pH of at least 7 for removing divalent non-ferrous metals and forming a stable ferric arsenate precipitate.

The method in accordance with claim 1 merely differs therefrom in that (i) in each of the tanks, a portion of ferrous iron is oxidized to ferric iron and ferric arsenate

International application No. PCT/ZA00/00176

is selectively precipitated, (ii) in that a portion of selectively precipated ferric arsenate is recycled from the final to the first tank and (iii) in that the pH of the solution is maintained in the second tank at about 1.5.

Thus, the subject-matter of claim 1 is novel (Article 33(2) PCT). It is also inventive (Article 33(3) PCT) because the use of the above novel features in order to improve arsenic removal and to minimize copper precipitation is not rendered obvious by the prior art, e.g. by document D2.

2.2 Claims 2 to 7 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

Re Item VI 3.

Certain documents cited

Document D3 claims the priority date of 06.06.1999. It has been filed on 30.05.2000 and published on 13.12.2000. Although its content is relevant, it does not belong to the prior art for the purpose of Article 33(2) and (3) PCT.

CLAIMS

- A method of which includes the steps of: 1.
 - introducing an acidic solution containing arsenic(V), copper, ferric iron and ferrous iron into a first tank of a series of continuously stirred tank reactors and, in the first tank,
 - adding air to the solution; (b)
 - heating the solution to an elevated temperature; (c)
 - recycling a portion of selectively precipitated ferric arsenate compounds to the said (d) first tank; and
 - seeding the solution with ferric arsenate compounds. (e)
 - A method according to claim 1 wherein the seeding occurs to provide seeds for 2. enhanced crystalline formation.
 - A method according to claim 1 or 2 wherein the molar ratio of iron to arsenic of the 3. solution is at least 1.
 - A method according to claim 1, 2 or 3 wherein air is added, in step (b), to oxidise the 4. ferrous iron to ferric iron.
 - A method according to any one of steps 1 to 4 wherein the solution is heated, in step (c), 5. to increase the rate of ferric arsenate precipitation and to minimise copper coprecipitation.
 - A method according to any one claims 1 to 5 wherein the said elevated temperature is Depart And Son 6. above 60°C and below 100°C.

- A method according to any one of claims 1 to 6 which is conducted at atmospheric **WO 01/23628** 7. pressure.
- A method according to any one of claims 1 to 7 which/includes the step of: 8.
 - transferring solution from the said first tank to a second tank in the series of continuously stirred tank reactors.
- A method according to claim 8 which includes the steps, in the second tank, of 9.
 - adding air to the solution; (g)
 - heating the solution to an elevated temperature; and (h)
 - selectively precipitating ferric arsenate compounds from the seeded aqueous (i) solution with a first calcium-containing neutralising agent.
- 10. A method according to claim 9 wherein the molar ratio of iron to arsenic of the seeded solution in the second tank is at least 1.
- A method according to claim 9 or 10 wherein air is added, in step (g), to oxidise ferrous 11. iron of the seeded solution to ferric iron.
- A method according to claim 9, 10 or 11 wherein the solution is heated, in step (h), to increase the rate of ferric arsenate precipitation and to minimise copper co-precipitation. 12.
- A method according to any one of claims 9 to 12 wherein the elevated temperature in 13. step (h) is above 60°C and below 100 °C.
- A method according to any one of claims 9 to 13 wherein the precipitation of ferric arsenate compounds in step (i) is conducted at atmospheric pressure and at a pH of at 14. least about 1,5.

- WO 01/23628

 15. A method according to any one of claims 9 to 14 wherein the first neutralising agent used in step (i) is limestone.
- 16. A method according to any one of claims 9 to 15 which includes the step of :
 - (j) transferring solution from the second tank to a third tank in the series of continuously stirred tank reactors.
- 17. A method according to claim 16 which includes the steps, in the third tank, of:
 - (k) adding air to the solution;

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- (I) heating the solution to an elevated temperature; and
- (m) selectively precipitating ferric arsenate compounds from the solution with a second calcium-containing neutralising agent.
- 18. A method according to claim 17 wherein the molar ratio of iron to arsenic of the solution in the third tank is at least 1.
- 19. A method according to claim 17 or 18 wherein air is added, in step (k), to oxidise ferrous iron of the solution to ferric iron.
- 20. A method according to claim 17, 18 or 19 wherein step (I) is used to increase the rate of ferric arsenate precipitation and to minimise copper co-precipitation.
- 21. A method according to any one of claims 17 to 20 wherein the elevated temperature in step (I) is above 60°C and below 100°C.
- 22. A method according to any one of claims 17 to 21 wherein the precipitation of ferric arsenate compounds in step (m) is conducted at atmospheric pressure and at a pH of at least about 1,9.

- WO 01/23628

 23. A method according to any one of claims 17 to 22 wherein the second neutralising agent used in step (m) is limestone.
- 24. A method according to any one of claims 17 to 23 which includes the step of :
 - (n) transferring solution from the third tank to a final tank in the series of continuously stirred tank reactors.
- 25. A method according to claim 24 which includes the steps, in the final tank, of :
 - (o) adding air to the solution;

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- (p) heating the solution to an elevated temperature; and
- (q) selectively precipitating ferric arsenate compounds from the solution by holding the solution in the final tank.
- 26. A method according to claim 25 wherein the molar ratio of iron to arsenic of the solution in the final tank is at least 1.
- 27. A method according to claim 25 or 26 wherein air is added, in step (o), to oxidise ferrous iron of the solution to ferric iron.
- 28. A method according to claim 25, 26 or 27 wherein step (p) is used to increase the rate of ferric arsenate precipitation and to minimise copper co-precipitation.
 - 29. A method according to any one of claims 25 to 28 wherein the elevated temperature in step (p) is above 60 °C and below 100 °C.
 - 30. A method according to any one of claims 25 to 29 wherein the selective precipitation of ferric arsenate compounds in step (q) is conducted at atmospheric pressure.

PCT/ZA00/00176

- WO 01/23628

 31. A method according to any one of claims 25 to 30 wherein the solution from the final tank is transferred to a separation unit where separation is undertaken to form a solid phase and a liquid phase.
- 32. A method according to claim 31 wherein a portion of the solid phase is recycled to the said first tank.

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PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

Commissioner US Department of Commerce United States Patent and Trademark Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202

ETATS-UNIS D'AMERIQUE in its capacity as elected Office Date of mailing (day/month/year) 29 June 2001 (29.06.01) Applicant's or agent's file reference International application No. INT1013/MAJR PCT/ZA00/00176 Priority date (day/month/year) International filing date (day/month/year) 30 September 1999 (30.09.99) 21 September 2000 (21.09.00) Applicant

BATTY, John, de Klerk

	0.711.77	1
1.	The designated Office is hereby notified of its election made: X in the demand filed with the International Preliminary Examining Authority on: 18 April 2001 (18.04.01)	
	in a notice effecting later election filed with the International Bureau on:	
	2. The election X was was was not was not made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).	
I		

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Eric LESOT (Fax 338.87.40)

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35 Form PCT/IB/331 (July 1992)

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